

AMENDMENTS TO THE CLAIMS

1. (Original) A humidity sensing mechanism for use with a device desired to be lubricated, said humidity sensing mechanism comprising:

a housing containing air, a lubricant, and a device desired to be lubricated by said lubricant;

a humidity sensor coupled with said housing, said humidity sensor being directly connected to said device;

said humidity sensor measuring a percentage of saturation of water within said lubricant by measuring said air within said housing.

2. (Original) The device of claim 1, the device further comprising:
an indicating mechanism communicatively coupled with said humidity sensor;
said indicating mechanism providing an alarm signal in response to a detection, above a predetermined level, of said percentage of saturation of water within said lubricant.

3. (Original) A humidity sensing mechanism for use with a device desired to be lubricated, the humidity sensing mechanism comprising:

a humidity sensor in contact with an enclosed space, said enclosed space being directly adjacent to said device;

said humidity sensor measuring a percentage of saturation of water within a lubricant by measuring said air of said enclosed space.

4. (Original) A humidity sensing mechanism for use with a device desired to be lubricated, the humidity sensing mechanism comprising:

a humidity sensor coupled with an enclosed space, said humidity sensor being directly connected to said device;

said humidity sensor measuring a percentage of saturation of water within a lubricant by measuring said air within said enclosed space.

5. (Original) A humidity sensing and alarm mechanism for use with a device desired to be lubricated, the humidity sensing mechanism comprising:

a humidity sensor coupled with an enclosed space, said humidity sensor being directly connected to said device;

an alarm indicator communicatively coupled with said humidity sensor;

said humidity sensor measuring a percentage of saturation of water of said lubricant by measuring said air within said enclosed space;

said alarm indicator indicating when the lubricant's water concentration exceeds a predetermined percentage of saturation of water within said lubricant.

6. (Original) A sensor for determining the level of humidity present in air in an enclosed space located directly adjacent to an individually monitored device, said sensor comprising:

a housing, said housing defining said enclosed space;

a stand alone humidity sensing mechanism, said mechanism being directly connected to said individually monitored device;

an indicating mechanism coupled to said sensing mechanism;

said indicating mechanism indicating at least one of a safe or an unsafe level of humidity present in said enclosed space;

said stand alone humidity sensing mechanism detachable from said enclosed space;
said humidity sensor measuring a percentage of saturation of water within said lubricant by measuring said air of said enclosed space.

7. (Canceled)

8. (New) A humidity sensing mechanism for use with a device desired to be lubricated, said humidity sensing mechanism comprising:

a housing carrying a lubricant and a device desired to be lubricated by said lubricant;

a humidity sensor coupled with headspace of said housing, said humidity sensor being removably coupled to said housing;

said humidity sensor measuring a percentage of saturation of water within said lubricant by measuring said air within said housing;

a first indicating mechanism;

a second indicating mechanism;

said humidity sensor communicative with said first and second indicating mechanisms;

said humidity sensor controlling said first indicating mechanism to illuminate when said humidity sensor detects saturated relative humidity levels below a predetermined unsafe level of saturated relative humidity;

said humidity sensor controlling said second indicating mechanism to illuminate when said humidity sensor detects saturated relative humidity levels above said a predetermined unsafe level of saturated relative humidity.